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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/854,528	05/15/2001	Toru Suzuki	00653/01-F-011US/UA	8224
513 759	513 7590 10/20/2006		EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P.			HOFFMANN, JOHN M	
2033 K STREET N. W. SUITE 800		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006-1021			1731	
			DATE MAILED: 10/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
• • • • • • • • • • • • • • • • • • •	09/854,528	SUZUKI ET AL.				
Office Action Summary	Examiner	Art Unit				
·	John Hoffmann	1731				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
* A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONET	ely filed will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>28 Ju</u>	ly 2006 and 30 August 2006.					
2a) ☐ This action is FINAL. 2b) ☐ This	<u> </u>					
	7— 11					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1 and 13 is/are pending in the applicate 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to examine the correction of the objected to by the Examiner The oath or declaration is objected to be objecte	epted or b) objected to by the E drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
lttachmant/a)						
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dal 5) Notice of Informal Pa 6) Other:	e				

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DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1 and 13 are rejected under 35 U.S.C. 101 because the disclosed invention is inoperative and therefore lacks utility.

See prior Office action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

See prior Office action.

Claims 1 and 13 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. Adjustment of the solid content is critical or essential

to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). See the first page of the supplement response filed 20 August 2006 in which applicant admits that it is "necessary to adjust the solid content of the slurry". Since the claims omit this critical step, the method which does not include the step is not enabled.

Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1 and 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Topchiashvili 6010983 in view of Wei 5518660.

See prior Office action.

As to the newly claimed A, B or C: see Wei, col. 5, lines 50-67 which discloses a 35 vol. % solids and various average particle sized (e.g. 0.2 micron). These two conditions fall within the requirements of part B of claim 1.

Claim 1 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Topchiashvili 6010983 and Takagi 4996177.

See prior Office action. As to the newly claims A, B and C: see Example 1 of Takagi. Given the 100 parts by weight alumina: 100 grams of alumina has a volume of about 25.2 cc, because alumina has a density of 3.97 gram/cc. 28 grams of the aqueous solution would have a volume of about 28 cc. Thus the solid content would be 25.2/ (25.2+28) = 47% which is in the range of part C of claim 1. As per col. 6, lines 15-16: the average of the two dimensions (1.0 micron and 0.2 micron) would be 0.6 micron.

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Thus it would be an average particle size that is larger than 0.4 micron and less than 1 micron.

Claims 1 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morita 4937214.

See prior Office action. As to the new A, B or C requirement, Morita only discloses the particle size – see examples 1-3: they fall within the range of B). There is no mention of the amount of liquid used. It would have been obvious to utilize the amount of paraffin necessary perform the process, but not any more than reasonably necessary. Obviously, the more paraffin used would mean the more cost for the raw material and extra effort/time to remove and dispose of it.

Response to Arguments

Applicant's arguments filed 7-28/2006 and 8-30/2006 have been fully considered but they are not persuasive.

It is argued that the prior art does not disclose adjustment of the solid content of the slurry. This does not appear to be very relevant because the claims do not require a step of adjustment.

Regarding Applicant's admission that orientation is only possible with Topshiashvili's ceramics: it is argued that when the admission when taken in context with other arguments, it is apparent that Applicants are not admitting the invention won't work. This is not convincing because this essentially contradicts the assertion the "only

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possible" admission by Applicant. In other words: Applicant is arguing that Applicant's prior words do not mean what they actually say, rather, one has to interpret them in light of other comments. The Office takes all statements at face value. The Office would be at a complete loss as to what applicant's argument actually mean if they are not taken at face value – i.e. if they have to be re-interpreted in light of other comments.

Applicant also points out that page 14 of the specification indicates that oriented sintered product was obtained. Applicant does not point to specific line numbers on page 14, so examiner is uncertain as whether Examiner is considering the correct portion. Examiner sees nothing on page 14 which indicates that the orientation was created by the magnetic field. It could be coincidence. Examiner understands that slip casting without a magnetic field causes particle orientation. Examiner sees nothing on page 14 which contradicts applicant's admission that the invention does not work.

As to the affidavit: the relevance is not understood. Whereas the arguments point to the affidavit, there is no discussion of its relevance except that it is evidence.

From MPEP 716.02(b) [R-2] Burden on Applicant:

II. >< APPLICANTS HAVE BURDEN OF EXPLAINING PROFFERED DATA "[A]ppellants have the burden of explaining the data in any declaration they proffer as evidence of non-obviousness." Ex parte Ishizaka, 24 USPQ2d 1621, 1624 (Bd. Pat. App. & Inter. 1992).

It is also argued that claim 1 defines over the prior art because it encompasses the invention of cancelled claim 14. Examiner disagrees, prior claim 14 required three adjusting steps, A, B and C. Claim 1 only requires one of the three – and none need be an adjusting step.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Hoffmann whose telephone number is (571) 272 1191. The examiner can normally be reached on Monday through Friday, 7:00- 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

aminer

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-27241000.

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